LISTING OF THE CLAIMS

The following listing, if entered, replaces all prior versions of the claims in the present application.

1. (**Currently Amended**) A method comprising:

receiving a packet, the packet comprising a multicast destination address; and sending a copy of the packet to a virtual network device sub-unit via a virtual network device link, wherein

the virtual network device link couples two virtual network device subunits, and wherein the two virtual network device sub-units are configured to operate as a single virtual network device; and

the sending comprises sending at most one copy of the packet via the virtual network device link.

- 2. (Cancelled)
- 3. (Currently Amended) The method of claim [[2]] 1, further comprising: receiving a second packet via the virtual network device link, the second packet comprising a second multicast destination address; and replicating the second packet for each of a plurality of outgoing VLANs (Virtual Local Area Networks) associated with the second multicast destination address.
- 4. (Original) The method of claim 3, further comprising: sending at least one copy of the second packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 5. (Original) The method of claim 3, further comprising: sending at least one copy of the second packet to each line card that includes an interface associated with an incoming VLAN, wherein the second packet is being conveyed in the incoming VLAN.

- 6. (Original) The method of claim 3, further comprising: sending at most one copy of the second packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 7. (Original) The method of claim 3, further comprising: not sending any copy of the second packet via an uplink interface coupled to a virtual network device bundle.
- 8. (Currently Amended) The method of claim [[2]] 1, further comprising: receiving a third packet via the virtual network device link, the third packet comprising a unicast destination address; and performing an egress lookup for the third packet in response to the receiving the third packet.
- 9. (Original) The method of claim 8, whereina header associated with the third packet is also received via the virtual network device link,the header comprises a destination identifier.
- 10. (Original) The method of claim 9, further comprising: sending the third packet and the header to another line card if a non-primary entry corresponding to the unicast destination address is found during the egress lookup.
- 11. (Original) The method of claim 9, further comprising:if a primary entry corresponding to the unicast destination address is found during the egress lookup:sending the third packet from an interface identified by the primary entry.

- 12. (Original) The method of claim 11, further comprising:
 sending a notification via the virtual network device link if the destination
 identifier comprised in the header does not match a destination identifier
 comprised in the primary entry, wherein
 the notification identifies the unicast destination address as corresponding
 to the destination identifier comprised in the primary entry.
- 13. (**Currently Amended**) A method, comprising:

receiving a packet via a virtual network device link, the packet comprising a unicast destination address, wherein

the virtual network device link couples two virtual network device subunits, and wherein the two virtual network device sub-units are configured to operate as a single virtual network device; and performing an egress lookup for the packet in response to the receiving the packet, wherein

the performing the egress lookup comprises allocating a non-primary entry corresponding to a source address of the packet in the lookup table.

- 14. (Original) The method of claim 13, wherein
- a header associated with the packet is also received via the virtual network device link,

the header comprises a destination identifier.

- 15. (Original) The method of claim 14, further comprising: sending the packet and the header to another line card if a non-primary entry corresponding to the unicast destination address is found during the egress lookup.
- 16. (Original) The method of claim 14, further comprising:if a primary entry corresponding to the unicast destination address is found during the egress lookup:

sending the packet from an interface identified by the primary entry.

- 17. (Original) The method of claim 16, further comprising:
 sending a notification via the virtual network device link if the destination
 identifier comprised in the header does not match a destination identifier
 comprised in the primary entry, wherein
 the notification identifies the unicast destination address as corresponding
 to the destination identifier comprised in the primary entry.
- 18. (Original) The method of claim 16, wherein the packet is only sent from the interface if the interface is not comprised in an uplink interface bundle.
- 19. (Previously Presented) The method of claim 13, further comprising: receiving a second packet, the second packet comprising a multicast destination address; and sending at most one copy of the second packet to one of the two virtual network device sub-units via the virtual network device link.
- 20. (Original) The method of claim 19, further comprising: receiving a third packet via the virtual network device link, the third packet comprising a second multicast destination address; and replicating the third packet for each of a plurality of outgoing VLANs (Virtual Local Area Networks) associated with the second multicast destination address.
- 21. (Original) The method of claim 20, further comprising: sending at least one copy of the third packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 22. (Original) The method of claim 20, further comprising:

- sending at least one copy of the third packet to each line card that includes an interface associated with an incoming VLAN, wherein the third packet is being conveyed in the incoming VLAN.
- 23. (Original) The method of claim 20, further comprising: sending at most one copy of the third packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 24. (Currently Amended) A method comprising:
 receiving a packet via a virtual network device link;
 performing one of an ingress lookup and an egress lookup for the packet,
 wherein

the ingress lookup is performed for the packet if the packet includes a multicast destination address;

the egress lookup is performed for the packet if the packet includes a unicast destination address, wherein

the performing the egress lookup comprises allocating a

non-primary entry corresponding to a source

address of the packet in the lookup table; and

a primary lookup table entry can be allocated in response to an ingress lookup but not in response to an egress lookup.

- 25. (Original) The method of claim 24, wherein the packet includes a multicast destination address, and the method further comprises:
 - replicating the packet for each of a plurality of outgoing VLANs associated with the multicast destination address.
- 26. (Original) The method of claim 25, further comprising: sending at least one copy of the packet to each line card that includes an interface associated with one of the outgoing VLANs.

- 27. (Original) The method of claim 25, further comprising: sending at most one copy of the packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 28. (Original) The method of claim 25, further comprising: not sending any copy of the packet via the virtual network device link.
- 29. (Original) The method of claim 25, further comprising:not sending any copy of the packet via an uplink interface comprised in a uplink interface bundle.
- 30. (Original) The method of claim 24, wherein a header associated with the packet is also received via the virtual network device link,

the header comprises a destination identifier, and the packet comprises the unicast destination address, and the method further comprises:

sending the packet and the header to another line card if a non-primary entry corresponding to the unicast destination address is found during the egress lookup.

- 31. (Original) The method of claim 30, further comprising:
 if a primary entry corresponding to the unicast destination address is found during
 the egress lookup:
 sending the packet from an interface identified by the primary entry.
- 32. (Original) The method of claim 30, further comprising: sending a notification via the virtual network device link if a destination identifier comprised in the header does not match a destination identifier comprised in the primary entry, wherein

the notification identifies the unicast destination address as corresponding to the destination identifier comprised in the primary entry.

33. (Original) The method of claim 30, wherein the packet is only sent from the interface if the interface is not comprised in a uplink interface bundle.

34. (Currently Amended) A system comprising:

an interface to a virtual network device link, wherein

the interface is configured to receive a packet,

the virtual network device link couples two virtual network device subunits, and

the two virtual network device sub-units are configured to operate as a single virtual network device; and

a distributed forwarding module coupled to the interface, wherein the distributed forwarding module is configured to forward the packet,

the distributed forwarding module is configured to perform an

ingress lookup for the packet if the packet includes a multicast

destination address, and

the distributed forwarding module is configured to perform an egress

lookup for the packet if the packet includes a unicast

destination address.

35. (Cancelled)

36. (Original) The system of claim 34, wherein the packet includes a multicast destination address, and the distributed forwarding module is configured to replicate the packet for each of a plurality of outgoing VLANs associated with the multicast destination address.

37. (**Currently Amended**) The system of claim [[35]] <u>34</u>, further comprising:

one of more line cards, wherein

the distributed forwarding module is configured to send at least one copy of the packet to each of the one or more line cards that includes an interface associated with one of the outgoing VLANs.

38. (**Currently Amended**) The system of claim [[35]] <u>34</u>, further comprising:

one or more line cards, wherein

the distributed forwarding module is configured to send at most one copy of the packet to each line card that includes an interface associated with one of the outgoing VLANs.

- 39. (**Currently Amended**) The system of claim [[35]] <u>34</u>, further comprising:
 - a second interface configured to receive a second packet, wherein
 the second packet comprises a second multicast address, and
 the distributed forwarding module is configured to send at most one copy
 of the second packet via the virtual network device link.
 - 40. (Original) The system of claim 34, wherein a header associated with the packet is also received via the virtual network device link,

the header comprises a destination identifier, and
the packet comprises the unicast destination address, and
the distributed forwarding module is configured to send the packet and the header
to another line card if a non-primary entry corresponding to the unicast
destination address is found during the egress lookup.

41. (Original) The system of claim 40, further comprising:
a second interface, wherein
the distributed forwarding module is configured to send the packet from
the second interface if a primary entry corresponding to the unicast

destination address is found during the egress lookup and if the primary entry identifies the second interface.

42. (Original) The system of claim 40, wherein

the distributed forwarding module is configured to send a notification via the virtual network device link if a destination identifier comprised in the header does not match a destination identifier comprised in the primary entry, and

the notification identifies the unicast destination address as corresponding to the destination identifier comprised in the primary entry.

43. (Currently Amended) A system comprising:

means for receiving a packet, the packet comprising a multicast destination address; and

means for sending a copy of the packet to a virtual network device sub-unit via a virtual network device link, wherein

the virtual network device link couples two virtual network device subunits, and wherein the two virtual network device sub-units are configured to operate as a single virtual network device, and

the means for sending comprises sending at most one copy of the packet via the virtual network device link.

44. (Cancelled)

45. (**Currently Amended**) The system of claim [[44]] <u>43</u>, further comprising:

means for receiving a second packet via the virtual network device link, the second packet comprising a second multicast destination address; and means for replicating the second packet for each of a plurality of outgoing VLANs (Virtual Local Area Networks) associated with the second multicast destination address.

- 46. (Original) The system of claim 45, further comprising: means for sending at least one copy of the second packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 47. (Original) The system of claim 45, further comprising: means for sending at least one copy of the second packet to each line card that includes an interface associated with an incoming VLAN, wherein the second packet is being conveyed in the incoming VLAN.
- 48. (Original) The system of claim 45, further comprising: means for sending at most one copy of the second packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 49. (**Currently Amended**) The system of claim [[44]] <u>43</u>, further comprising:
 - means for receiving a third packet via the virtual network device link, the third packet comprising a unicast destination address; and means for performing an egress lookup for the third packet in response to the receiving the third packet.
 - 50. (Currently Amended) A system comprising:
 - means for receiving a packet via a virtual network device link, the packet comprising a unicast destination address, wherein the virtual network device link couples two virtual network device subunits, and wherein the two virtual network device sub-units are configured to operate as a single virtual network device; and means for performing an egress lookup for the packet, wherein
 - the means for performing the egress lookup comprises means for allocating a non-primary entry corresponding to a source address of the packet in the lookup table.
 - 51. (Original) The system of claim 50, wherein

- a header associated with the packet is also received via the virtual network device link,
- the header comprises a destination identifier obtained by performing an ingress lookup for the packet.
- 52. (Original) The system of claim 51, further comprising:
- means for sending the packet and the header to another line card if a non-primary entry corresponding to the unicast destination address is found during the egress lookup.
- 53. (Original) The system of claim 51, further comprising:
- means for sending the packet from an interface identified by a primary entry, if the primary entry corresponding to the unicast destination address is found during the egress lookup.
- 54. (Original) The system of claim 53, further comprising:
- means for sending a notification via the virtual network device link if the destination identifier comprised in the header does not match a destination identifier comprised in the primary entry, wherein the notification identifies the unicast destination address as corresponding to the destination identifier comprised in the primary entry.
- 55. (Original) The system of claim 53, wherein
- the packet is only sent from the interface if the interface is not comprised in an uplink interface bundle.
- 56. (Previously Presented) The system of claim 51, further comprising: means for receiving a second packet, the second packet comprising a multicast destination address; and
- means for sending at most one copy of the second packet to one of the two virtual network device sub-units via the virtual network device link.

- 57. (**Currently Amended**) A computer readable medium storing a program, the program comprising program instructions executable to:
 - detect reception of a packet, the packet comprising a multicast destination address; and
 - send a copy of the packet to a virtual network device sub-unit via a virtual network device link, wherein
 - the virtual network device link couples two virtual network device subunits, and wherein the two virtual network device sub-units are configured to operate as a single virtual network device, and

sending comprises sending at most one copy of the packet via the virtual network device link.

- 58. (Cancelled)
- 59. (**Currently Amended**) The computer readable medium of claim [[58]] **57**, wherein the program instructions are further executable to:
 - detect reception of a second packet via the virtual network device link, the second packet comprising a second multicast destination address; and replicate the second packet for each of a plurality of outgoing VLANs (Virtual Local Area Networks) associated with the second multicast destination address.
- 60. (Original) The computer readable medium of claim 59, wherein the program instructions are further executable to:
 - send at least one copy of the second packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 61. (Original) The computer readable medium of claim 59, wherein the program instructions are further executable to:
 - send at least one copy of the second packet to each line card that includes an interface associated with an incoming VLAN, wherein the second packet is being conveyed in the incoming VLAN.

- 62. (Original) The computer readable medium of claim 59, wherein the program instructions are further executable to:
 - send at most one copy of the second packet to each line card that includes an interface associated with one of the outgoing VLANs.
- 63. (Original) The computer readable medium of claim 58, wherein the program instructions are further executable to:
 - detect reception of a third packet via the virtual network device link, the third packet comprising a unicast destination address; and perform an egress lookup for the third packet in response to the receiving the third
- 64. (**Currently Amended**) A computer readable medium storing a program, the program comprising program instructions executable to:
 - detect reception of a packet via a virtual network device link, the packet comprising a unicast destination address, wherein the virtual network device link couples two virtual network device subunits, and wherein the two virtual network device sub-units are configured to operate as a single virtual network device; and perform an egress lookup for the packet, wherein

performing the egress lookup comprises allocating a non-primary entry corresponding to a source address of the packet in the lookup table.

- 65. (Original) The computer readable medium of claim 64, wherein a header associated with the packet is also received via the virtual network device link,
- the header comprises a destination identifier.

packet.

66. (Original) The computer readable medium of claim 65, wherein the program instructions are further executable to:

- send the packet and the header to another line card if a non-primary entry corresponding to the unicast destination address is found during the egress lookup.
- 67. (Original) The computer readable medium of claim 65, wherein the program instructions are further executable to:
 - send the packet from an interface identified by a primary entry, if the primary entry corresponding to the unicast destination address is found during the egress lookup.
- 68. (Original) The computer readable medium of claim 67, wherein the program instructions are further executable to:
 - send a notification via the virtual network device link if the destination identifier comprised in the header does not match a destination identifier comprised in the primary entry, wherein
 - the notification identifies the unicast destination address as corresponding to the destination identifier comprised in the primary entry.
 - 69. (Original) The computer readable medium of claim 67, wherein the packet is only sent from the interface if the interface is not comprised in an uplink interface bundle.
- 70. (Original) The computer readable medium of claim 65, wherein the program instructions are further executable to:
 - detect reception of a second packet, the second packet comprising a multicast destination address; and
 - send at most one copy of the second packet to a virtual network device sub-unit via a virtual network device link, the virtual network device sub-unit comprised in a virtual network device.